THE TECH

VOL. XXVII. No. 53 BOSTON, MASS., WEDNESDAY, MARCH 4, 1908 PRICE THREE CENTS

SECOND GAME WITH HOLY CROSS TONIGHT.

FIRST GAME A DEFEAT.

Tech Lost by a Bare Margin. Chances Good for this Evening.

For the second time this season Technology will meet Holy Cross in basketball tonight. The last game, which was held at Worcester, was very close, both teams putting up a very even game.

Two extra periods were played in order to decide a tie score. Probably the only reason that Tech lost in the end was that several substitutes had to be put in.

The greatest rivalry has always existed between the basketball teams of the two institutions. Tech has been the only opponent in recent years that has defeated the Holy Cross team on its own floor. This was done in a terrific game four years ago.

In view of the even way in which the last game went, and with the advantage tonight of home grounds there is every reason to expect the Tech team to make a very good showing.

The game is the concluding one of the basketball season at the Institute. The probable line-up will be:—

HOLY CROSS		TECH.
Dowd rf	lg.	Wentworth
Stevens lf	rg.	Nichols
Casey c	c.	Parker
Larkin rg	lf.	Cahill
O'Neil rf	lg.	Hargraves

RESERVED SEATS ON SALE.

Hippodrome Tickets Can Be Secured in 30 Rogers.

The reserved seats for both afternoon and evening performances of the Hippodrome have come and are now on sale at 30 Rogers.

Already the demand for seats has exceeded all expectations and the privilege of reserving tickets until Saturday at noon has been extended to Tech men.

The stage seats have been reserved for the alumni and faculty and the classes of 1906 and 1907 have made liberal reservations to attend in a body.

Owing to the unexpected arrival of reserved seats the subscription tickets mailed to each man will not be needed except in cases of ticket sales outside of the student body.

Those men who sell the subscription tickets to friends should send them at once to 30 Rogers to secure an early choice. All such sales must be recorded, accompanied by money for the same with the business manager of The Tech before subscription tickets will be honored.

The Tech is awaiting suggestions for features to be introduced in the performances to give the event a local favor.

Already the question has been put to the athletic team for a gymnastic exhibition, while the idea of running a relay race between 1910 and 1911 has also been proposed.

TO INVESTIGATE OFFICE HOLDING.

Advisibility of Several Offices to One Man Questioned.

At the meeting of the Institute Committee Monday, a sub committee was appointed to investigate the advisability of one man's holding several offices. It was decided to call a meeting of the heads of the various student activities to get their views on the matter before doing anything final.

Various other subjects were discussed at the meeting but the all important question was that relating to the Junior week holidays.

NEED OF WEEK VACATION EXPLAINED AT MASS MEETING.

TECH SHOW UNABLE TO GIVE A SUCCESSFUL PRODUCTION UNDER PRESENT CONDITIONS.

Petitions to Faculty Being Signed by Vast Majority of Men in Institute.

HARRY A. RAPELYE.

FRED A. DEWEY.

H. A. Rapelye, chairman of the Institute Committee, called the mass meeting together yesterday noon for the consideration of Tech Day at the Hippodrome, and of the petition to the faculty which is as follows:

"We, the undersigned, endorse the suggested action of the Institute Committee in petitioning the faculty that the Junior Week recess be lengthened to one week, such time as may be added to the present length of the vacation to be made up at the end of the second term of the Institute year."

It is intended that this be a permanent arrangement, not to go into effect this year, however, because it would interfere with the dates of the alumni reception, class day and commencement which have already been definitely determined. Forty-eight petitions divided among the classes were handed around to be signed by the students before noon today to find out what per cent. of the undergraduate body are interested in Junior Week.

This question is especially brought to the front just now because of the predicament in which the Show finds itself. Manager Dewey says it is impossible to give a financially successful show in the three regular vacation days April 20, 21, and 22 as they come this year the first of the week. The petition is to avoid this trouble in the future aside from the other benefits to be derived from a vacation at this time.

A. H. Straus, B. S., stated some objections to the operation of such a rule this year, but on being told it would not take effect this year he withdrew his objections.

C. Turner, editor in chief of The Tech, stated the time and places tickets for the Hippodrome can be exchanged.

HARE AND HOUNDS STARTING.

First Run of Season Saturday Condition of Ground Permitting.

If the snow melts by Saturday a hare and hounds run will be held from the Hyde Park Y. M. C. A. that afternoon. This is an earlier start for actual cross country practice than has ever been attempted at the Institute before.

The pressing need for men who expect to run in the distance races to have a lot of practice makes it imperative that they start training at once.

These hare and hound chases will be held every Saturday from now on unless the weather prohibits, or a regular meet is to be held. A new plan for choosing the hares from the men who found the bags on the previous run will be tried and it is expected that this will add to the interest of the men who run.

The first runs will be short and easy, the squad to be divided according to the speed of the men. Captain Ellis will run with the fast men and Stephenson will see that none of the slow men get lost. Coach Kanaly will also run with the men.

BRITONS TO DINE.

Wednesday, March 11, at the Union, is the time and place for the next dinner of the British Empire Association. This was decided at the business meeting held in 16 Rogers on Monday. At Monday's meeting the proof of the association heading for Technique drawn by E. J. Williams, was submitted. After a few minor corrections were made, the drawing was accepted.

ELECTRICALS WILL HEAR STEINMETZ.

Dr. Charles P. Steinmetz, one of this country's foremost electricians, will address the Electrical Engineering Society after its dinner Thursday evening. Dr. Steinmetz came to the Eickmeyer Laboratory at Yonkers, N. Y., from Breslau, Germany, in 1889. In 1893 he went into the General Electric shops at Schenectady, N. Y., where he has remained since.

His work has covered rather a large field. Some of his subjects have been synthetic geometry, vector analysis of alternating currents, magnetism and hysteresis, dielectrics, theory of electrical apparatus and phenomena and electro-chemistry. He has received an A. M. from Harvard, a Ph. D. from Union College, and an F. A. A. from the Mathematics Society and from the Physical Society. Besides his connection with the General Electric Company, Dr. Steinmetz is professor of electrical engineering in Union College.

Dr. Steinmetz has not announced his subject yet but the talk will undoubtedly be very good in view of his wide experience in his profession.

Y. M. C. A. TO HEAR ABOUT BOWERY.

David J. Ranney, who is engaged in settlement work in New York, has been secured to address the Y. M. C. A. meeting tomorrow. He will give a talk about the "Bowery," speaking from the actual experiences of several years' work in this district and is sure to bring out some facts about conditions that will be startling to men not familiar with the lower end of New York. Every student is invited. The meeting is tomorrow from 1.30 to 2.00 P. M. in the library of Trinity Church.

IS OLDEST IN THE COUNTRY.

ELECTRICAL COURSE FIRST IN ACE.

Great Development Since Inception Eminent Men on Advisory Committee.

The electrical engineering course at the Institute was the first formal course of electrical engineering established in the country. The only other course in electrical engineering which rivals it in age, the one maintained at Cornell University, was established, it appears, a few months later than the course at the Institute.

The first students graduating from each institution in these new courses were in the class of 1885.

In each instance the electrical engineering course was an offshoot of the physics department and remained so for some years, with the professor of physics in charge of the work in electrical engineering. The Institute is deeply indebted to Prof. Charles R. Cross for the high reputation which was promptly created for the electrical engineering course here afforded.

The course in electrical engineering at the Institute was separated from the physics department a number of years ago. Dr. Louis Duncan was then appointed professor of electrical engineering in charge of the department. After his resignation Prof Harry E. Clifford was given acting charge of the department. The appointment of Prof. Dugald C. Jackson to the head of the department was made in 1906.

The past year signalizes the inception of some important modifications in the electrical engineering course. Certain changes made in the civil and mechanical engineering courses, especially the shifting of applied mechanics to an earlier place in these courses, opened the opportunity to modify similarly the electrical course. The modifications were presented to the faculty by the department and have now been in large measure adopted to go into effect with second-year students during the present year.

In considering the plan of these modifications, resort was made to the advice of the visiting committee of the corporation and the special advisory committee of the department by the authorities in the course.

The latter committee consists of Prof. Elihu Thomson, Mr. Charles L. Edgar, Mr. Louis A. Ferguson, M. I. T. 1883, Mr. Hammond V. Hayes and Mr. Charles F. Scott, all distinguished and widely known electrical engineers or executives.

This committee was appointed by the corporation in the academic year 1905-06 at the suggestion of Prof. Clifford.

(Continued on page 3.)

MRS. FRANCIS TRAINING SEXTETTE.

New Instructor Proves Popular with Her Pupils.

There was plenty of enthusiasm yesterday among the lucky six who were chosen to dance under the instruction of Mrs. James R. Francis. There is no doubt that she will turn out a set of dancers which will be a surprise to all. They are now of no inferior skill but will have to improve a good deal to reach the standard set for them by their tutor.

Mrs. Francis has had a good deal of experience in this line of work. Under the name of Sally Lomas she originated and led the "champagne dance" in "The Silver Slipper" which Mr. Francis staged. She also led the "garland dance" in "Florodora" and although she has not been on the stage for several years she has lost none of her skill.

The men in the sextette are: H. G. A. Black 1910, A. M. Cook 1908, E. K. Jenckes 1910, M. W. Tilden 1910, W. J. Orchard 1910, and T. C. Merriman 1909. All of these with the exception of the last named were in the dancing sextette in "William, Willie and Bill."

THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

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Single Copies 3 Cents.

Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage.

Printed by Old Colony Press, Boston.

Wednesday, March 4, 1908.

The Tech takes pleasure in announcing the appointment of Dudley Clapp 1910 to the position of associate editor and of George C. Kenney 1911 to the news staff.

The communication presented below explains itself. Technique is one of the worthiest of Institute activities. Success or failure of this book can do a great deal to help or hurt the reputation of Technology students. Mr. Adams' communication illustrates one of the too frequent cases where men have shown lamentable lack of support and no responsibility for Technique.

DECIDE BEFORE NOON.

Today at noon the petition books asking for a week's vacation in April next year will be handed to the faculty. Before this time everyone should have come to a definite conclusion and either have signed the petition or decided against the project. Whether such a move is wise or not is of course a question to be decided after deliberate thought.

Some think that a week's vacation would make a harmful break in the continuity of the second term's work. Others believe that fifteen weeks of almost continuous work is too much and that a week's recreation would freshen the minds of everyone and put the students into better condition to carry on the last part of the term's work with greater efficiency.

Of the respective merits of these two views every man should decide for himself before twelve o'clock today.

COMMUNICATION.

Editor of The Tech.
M. I. T., Boston Mass.

Dear Sir:—

It has come to my knowledge that at a dinner of the Chicago Club held last week a letter was read from Mr. Robbins, Treasurer of Technique 1907, requesting the payment of the Club's bill for the insertion of names of the members in Technique 1907.—that a letter was also read from W. A. Adams requesting the payment of the Club's bill for the insertion of names of members in Technique 1908. It has also come to my knowledge that after some discussion on these two letters it was decided that since the 1907 class has left the institute there would be no use in bothering any more about their bill, and as 1908 would be leaving in June there would be no use bothering about their bill, at any rate it would be better to wait until April and see what 1908 did in the meantime.

It is my opinion that this information should be made public for the benefit of Technique 1909 because they will be getting out in a year and a half and the Chicago Club "goes on forever."

It also occurs to me that if this social club at the Institute is tending to destroy what little "business honesty" is born in men in the vicinity of Chicago it would be more to the benefit of future Chicago men to avoid connection with this enterprising organization.

Yours very truly,
W. A. ADAMS.
Treasurer of Technique 1908.

PRIZES FOR AD GETTING STILL OPEN.

Art Work of High Grade is Promised for Technique.

According to present prospects, Technique will be exceptionally good this year. The grinds are practically all finished, about two-thirds of them being already set up while the rest are held up, so that there still is a chance for some good ones to be used. The art work is especially encouraging. The work is of high grade and has all come in in good time.

The hardest pull has been in getting the advertisements, there still being a good chance for any man willing to hustle during the two weeks yet remaining, to get one of the two prizes of $20 and $10. In connection with this the board desires to remind all those interested in getting the ads that besides the above mentioned prizes, a 10 per cent. commission is given on all ads secured. Everyone is urged to help in getting the ads and to send in grinds, especially 1909, which has been rather weak in this respect.

Members of the Technique staff are now going around the different buildings getting the names of those wanting copies. Everyone intending to get copies is urged to give his name so that it will be possible to have enough printed in the first edition.

SPECTROPHOTOMETER.

This Instrument Added to Optical Equipment. Also Ultra-Violet Microscope.

To the equipment of the optical laboratory in the physics department has been added a new Konig spectrophotometer of the horizontal type, which is especially adapted to the investigation of the absorption spectra of liquids.

The instrument is in use in connection with a research in progress under the direction of Professor Harry Goodwin on the absorption spectra of liquid ammonia solutions of the alkali metals.

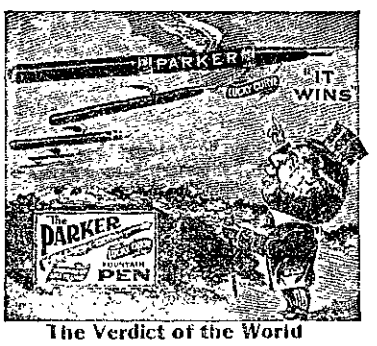
A rotating-sector spectrophotometer is needed to completely fill the equipment in this line.

Another important addition to this laboratory is the apparatus by Zeiss for the study of microscopic objects of ultra-violet light, from the gift of the late Mrs. Katharine Bigelow Lowell, the income of which is devoted to the purchase of physical apparatus.

The ultra-violet microscope will be devoted to study and research work in charge of Professor Louis Derr.

The new Lumiere autochrome plates, only now procurable, will enable the laboratory to make further additions to the Institute's valuable collection of photographs in natural colors.

For the electrical laboratory in the physics department there has been purchased, among other apparatus, a Duddell Thermogalvanometer for the study and measurement of very minute currents, telephonic and other.



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AMUSEMENTS

¶ Tickets for Boston theatres advertised below, may be had on application to Business Manager, The Tech, 30 Rogers. . . . . .

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AUTOMOBILES AND STEEL RAILS.

At the Union last night the Mechanical Engineering Society listened to practical talks by three of its senior members, R. C. Angell, H. C. Faxon and B. S. Leslie.

Angell spoke on steel rails. He said that many railroad accidents were caused by defects in the rails, either in the making or in their chemical composition. The defects in the making are caused by "piping," that is, a hole the length of the interior rail, caused by contraction in cooling. When the steel is poured into the moulds gas is given off; some of this does not get to the surface owing to cooling, and globules are formed which helps in the breaking of the rails. A heavier rail with thicker web was recommended as a means of doing away with many accidents.

Leslie spoke on steam automobiles. He dwelt particularly on the White and the Stanley machines. In the White the steam is superheated, thus saving water and giving more energy. The water is condensed and is used over and over. The machine will go about 150 miles on one charging. This Stanley boiler has been known to stand a pressure of 900 pounds to the square inch. In this machine the water is used only once and the tank has to be recharged every 30 or 40 miles. In comparing the steam and gasoline cars it was said that in all races controlled by makers of gasoline cars the steam cars were refused entrance.

GOLD OUTPUT INCREASING.

Prof. Bugbee Describes Cyanide Process.

Professor E. E. Bugbee of the mining engineering department addressed the Mining Engineering Society Monday on the cyanide process of extracting gold. This process, although it has been but recently developed, has been making rapid strides in the past seven years and has greatly increased the gold output by utilizing what had before gone to waste in the "slimes."

P. H. Heimer 1908 then gave a detailed account of how he had been supplementing his school work with practical experience during the last summer in a smelter in Montana. He pointed out the advantages of such a combination of theory and practice.

IS OLDEST IN THE COUNTRY.

(Continued from page 1.)

It was intended that the committee should serve as an advisory committee to the department, and it has been in close touch with every change and new policy since it was appointed, proving a great aid in the change of the course and in grappling with new educational problems that have arisen.

The teaching of Prof. Jackson, head of the course, has of late years, especially at the University of Wisconsin, related mostly to phenomena of alternating currents and alternating current machinery, but Prof. Clifford has proved himself to have these subjects so well in hand that Professor Jackson has turned his attention toward lectures, recitations and quizzes for the fourth-year men in subjects relating more directly to the administrative and executive aspects of engineering affairs.

Opportunity for this work is afforded in the new arrangement of the curriculum of the course, and the faculty has granted the head of the course the privilege of substitution which Professor Jackson is utilizing until the modified course comes into effect.

The promotions and appointments made during the past year in the electrical department follows:

Professor Ralph R. Lawrence and Professor Harrison W. Smith have been promoted from the position of assistant professor of electrical engineering to associate Professor; Mr. H. G. Crane and Mr. W. V. Lyon have been promoted from the position of assistant to the positions of instructor; Mr. C. W. Green, (University of Wisconsin 1907), Mr. A. E. Harold (Pennsylvania State College 1907), Mr. R. G. Hudson (M. I. T. 1907), Mr. C. C. Knipmeyer (University of Michigan 1907), and Mr. G. B. Thomas (Ohio State University 1907) have been appointed to the positions of assistant in electrical engineering.

DR. PRITCHETT A TRUSTEE.

Former President Henry S. Pritchett has recently been named a trustee of the Alexander Hamilton National Memorial Association, founded with the object of soliciting funds necessary to erect in Washington a suitable memorial to perpetuate the memory of Alexander Hamilton.

The Technology Review

A QUARTERLY MAGAZINE DEVOTED TO THE INTERESTS OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND PUBLISHED BY THE ASSOCIATION OF CLASS SECRETARIES

83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

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CALENDAR.

Wednesday, March 4, 1908.

1.00 P. M. Time up for Signing Petition for Junior Week.
4.00 P. M. Tech Show Chorus Rehearses at the Union.
8.00 P. M. Chemeal Society Meets at the Union.

Thursday, March 5, 1908.

1.00 P. M. Senior Class Meets in Huntington Hall.
1.30 P. M. Y. M. C. A. Meets in Trinity Church Library.
4.15 P. M. Mandolin Club Rehearses in 31 Rogers.
4.15 P. M. Glee Club Rehearses in the Y. M. C. A. Auditorium.
5.00 P. M. Short Out-door Run from the Gym.
6.30 P. M. E. E. Society Dines at the Union.

Friday, March 6, 1908.

4.15 P. M. Athletic Association Meets in Rogers.
4.15 P. M. Banjo Club Rehearsal in 33 Rogers.

FACULTY NOTICE.

FOURTH YEAR.—Students who are now candidates for graduation are reminded of the fact that deficiencies in first term subjects of the fourth year must be made up before April 1.

NOTICES.

RIFLE CLUB.—Meeting Thursday at 1.00 P. M. in 33 Rogers.

1908.—Senior Class Meeting Thursday at one o'clock.

ATHLETIC ASSOCIATION. — Meeting Friday afternoon at 4.15 P. M.

1909.—All who have ordered class pictures are requested to take them at once.

VACATION.—The petition for a vacation of one week at Junior Week must be signed before one o'clock today.

CHEMICAL SOCIETY.—The Chemical Society will meet at the Union tonight at 8.00 P. M. to hear a talk on "Chrome Tanning" by Mr. Claflin. Tickets 25 cents.

ELECTRICAL ENGINEERS.—Meeting of the society tomorrow evening, dinner being served at 6.30 P. M. Dr. C. P. Steinmetz of the General Electric Company of Schnectady will give the address of the evening.

1910.—The list of class members for the Technique 1910 electoral board is now posted near the Cage in Rogers. Notice of corrections or omissions should be left for T. W. Saul at the Cage before tomorrow, as the list will be removed then.

MASTER MASONS.—All members of the Masonic Fraternity connected with the Institute, either as members of the faculty or of the student body, who have not already done so are requested to send their names and addresses to S. E. Gideon at the Cage, at their earliest convenience.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

LOST.—Last Friday, "Peabody's Valve Gears." Please return to Cage for M. C. Sherman.

LOST.—A Waterman pen with broken cap. W. D. Green 1909.

LOST.—One Peabody's Steam tables. J. N. Stephenson 1909.

LOST.—Peabody's "Valve Gears." Leave at Cage for A. K. Huckins.

Men who desire summer work at $2.50 per day, leave note for Woodruff at the Cage. ATTEND TO THIS NOW.

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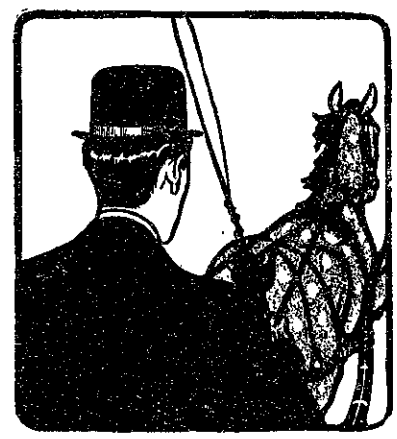

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